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## CLAIMS

1 1. A method comprising:

2 performing Voice over Internet Protocol (VoIP) routing in

a network including forcing packets carrying media in a VoIP

4 call through managed network elements of a specific Internet

5 Protocol (IP) address with a call signaling and selected media

6 proxy.

- 1 2. The method of claim 1 wherein the packets originate 2 in an originating VoIP network endpoint.
- 1 3. The method of claim 1 wherein the packets comply with RTP.
  - 4. The method of claim 1 wherein forcing comprises receiving call signaling information from an originating VoIP network endpoint.
  - 5. The method of claim 4 wherein forcing further comprises relaying the call signaling information through the call signaling proxy to a destination VoIP network element.
- 1 6. The method of claim 5 wherein forcing further
  2 comprises directing the originating VoIP network endpoint to
  3 use the selected media proxy.
- 7. The method of claim 6 wherein forcing further
  comprises streaming the packets to a media proxy in a selected
  media proxy server.

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- 8. The method of claim 7 wherein forcing further
  comprises replacing an Internet Protocol address of the
  selected media proxy and the call signaling proxy with an
- address of a next hop in the network.
- 9. The method of claim 4 wherein replacing comprises using Network Address Translation (NAT).
- 1 10. The method of claim 4 wherein the next hop comprises 2 a terminating VoIP network endpoint.
  - 11. The method of claim 1 wherein the selected media proxy includes a list of static virtual Internet Protocol addresses that represent media network endpoints, gateways and other media proxies.
  - 12. The method of claim 1 wherein the selected media proxy includes a list of dynamic virtual IP addresses that represent media network endpoints, gateways and other media proxies.
- 1 13. The method of claim 9 wherein Network Address
  2 Translation (NAT) hides the terminating VoIP network endpoint
  3 from a call originator.
- 1 14. The method of claim 9 wherein Network Address
  2 Translation (NAT) hides an originating VoIP network endpoint
  3 address from a terminating VoIP network endpoint address.

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- 1 15. The method of claim 4 wherein relaying comprises 2 selecting call signaling and media proxy servers that provide 3 a predetermined quality of service.
- 1 16. The method of claim 1 wherein selecting comprises
  2 testing a quality of a network connection from the originating
  3 VoIP network endpoint point of presence (POP) to each of the
  4 call signaling and media proxy servers.
- 1 17. The method of claim 16 wherein testing comprises
  2 using a series of pings to determine a closest call signaling
  3 and media proxy server.
  - 18. The method of claim 16 wherein testing comprises using trace routes to determine a closest call signaling and media proxy server.
    - 19. A method comprising:
- receiving call signaling information from an originating Voice over Internet Protocol (VoIP) endpoint;
- relaying the call signaling information to a destination VoIP endpoint;
- directing the originating VoIP endpoint to use a RTP media proxy; and
- receiving a stream of media to the RTP media proxy
  from the originating VoIP endpoint.

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- 1 20. The method of claim 19 wherein directing comprises:
- determining an address of the destination VoIP
- 3 endpoint; and
- 4 obtaining virtual addresses from the RTP media
- 5 proxy.
- 1 21. The method of claim 20 wherein the virtual addresses
- 2 represent media endpoints, gateways, PC clients, application
- 3 servers and other media proxies.
- 1 22. A method for controlling RTP routing comprising:
- 2 sending call signaling information from an
- originating VoIP endpoint to a call signaling proxy;
- 4 relaying the call signaling information from the
- 5 call signaling proxy to a destination VoIP endpoint; and
- 6 sending a stream of media from the originating VoIP
- 7 endpoint to a RTP media proxy.
- 1 23. The method of claim 22 wherein the RTP media proxy
- 2 comprises virtual IP addresses of media endpoints, media
- 3 gateways and other RTP media proxies.
- 1 24. The method of claim 22 wherein the RTP media proxy
- 2 comprises dynamic IP addresses of media endpoints, media
- 3 gateways and other RTP media proxies.

- 1 25. The method of claim 22 wherein the RTP media proxy
- 2 comprises static IP addresses of media endpoints, media
- 3 gateways and other RTP media proxies.
- 1 26. The method of claim 22 further comprising replacing
- an IP address of the call signaling proxy and the RTP media
- 3 proxy with an IP address of a next hop endpoint.
- 1 27. The method of claim 24 wherein replacing comprises
- 2 network address translation (NAT).
  - 28. A computer program stored on a computer-readable
- 2 mechanism, the computer program comprising instructions that
- 3 cause a computer to:
  - force packets carrying media in a VoIP call through
- 5 managed network elements of a specific Internet Protocol (IP)
  - address with a call signaling and selected RTP media proxy.
- 1 29. A computer program stored on a computer-readable
- 2 medium, the computer program comprising instructions that
- 3 cause a computer to:
- 4 receive call signaling information from an
- 5 originating Voice over Internet Protocol (VoIP) endpoint;
- 6 relay the call signaling information to a
- 7 destination VoIP endpoint;

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- 8 direct the originating VoIP endpoint to use a RTP
- 9 media proxy; and
- 10 receive a stream of media to the RTP media proxy
- from the originating VoIP endpoint.